

Title (en)
A PUMP HEAD FOR A HIGH PRESSURE PUMP

Publication
EP 0273692 A3 19900110 (EN)

Application
EP 87311329 A 19871222

Priority
US 94783886 A 19861230

Abstract (en)
[origin: EP0273692A2] A stress and fatigue resistant pump head for a high pressure pump has a manifold, a valve cartridge, inlet and outlet valves in the valve cartridge, a pump fluid cylinder with a reciprocating plunger therein, and a packing cartridge with packing for the plunger. In the pump cylinder (12), a recess (13) has an outer portion (13b) of larger diameter than an inner portion (13a). Portion (13b) threadedly engages the packing cartridge (14) and has an inner shoulder surface (13c). The packing cartridge (14) has an inner end face (14d) contacting the shoulder surface (13c), and an exterior threaded cylindrical surface (14c) for engagement with mating threads (13d) on the pump fluid cylinder recess (13). An end face (14d) of the packing cartridge (14) has an indented portion about the periphery of the interior edge (14e) thereof. An O-ring seal (65) is disposed in the indented portion and creates an effective high pressure seal between the packing cartridge nut (14a) and the pump fluid cylinder means (12). A front bushing (18) is designed to increase the volumetric efficiency of the pump head.

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F04B 21/00

IPC 8 full level
F04B 53/00 (2006.01)

CPC (source: EP US)
F04B 53/007 (2013.01 - EP US)

Citation (search report)

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